

Docket No. 264821US0PCT



MAIL STOP PCT

JC10 Rec'd PCT/PTO 07 JUN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Stefan LAUFER, et al.

SERIAL NO: 10/524,486

GAU:

FILED: February 14, 2005

EXAMINER:

FOR: 2-THIO-SUBSTITUTED IMIDAZOLE DERIVATIVES AND THEIR USE IN PHARMACY

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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U.S. PCT Application Serial No.: 10/524,486  
Docket No.: 264821US0PCT

#### STATEMENT OF RELEVANCY

- 1) References AB, AH-AL, AZ-AAB have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References \_\_\_\_\_ have been cited in the corresponding \_\_\_\_\_ Search Report. A copy of these references is being submitted herewith.
- 3) References AC-AG, AM-AY, AAC-AAL are discussed in the specification. A copy of these references is being submitted here with.
- 4) References \_\_\_\_\_ are additional prior art known to Applicant. A copy of these references is being submitted herewith.

**LIST OF RELATED CASES**

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Patent Appl. Publication No.</u>	<u>Inventor/ Applicant</u>
264821US0PCT*	10/524,486	02/14/05		LAUFER, et al.
240711US0PCT	10/467,064	01/28/04	US2004/0116416 A1	LAUFER, et al.
266174US0PCT	10/524,839	02/17/05		LAUFER, et al.
266870US0PROV	60/656,389	02/28/05		ALBRECHT, et al.
PER CLIENT	10/514,911	UNKNOWN		UNKNOWN

\*Present Application; listed for information  
NFO/kch/hah

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. <b>264821US0PCT</b>		SERIAL NO. <b>10/524,486</b>	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT <b>Stefan LAUFER, et al.</b>			
				FILING DATE <b>February 14, 2005</b>		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2004/0116416	06/17/04	LAUFER et al.			
	AB	6 040 320	03/21/00	BEERS et al.			
	AC	4 585 771	04/29/86	KLOSE et al.			
	AD	4 528 298	07/09/85	NIEDBALLA et al.			
	AE	4 402 960	09/06/83	NIEDBALLA et al.			
	AF	4 190 666	02/26/80	CHERKOFISKY et al.			
	AG	5 364 875	11/15/94	WILDE			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AH	00/17192	03/30/00	WO (with English abstract)			NO
	AI	0 004 648	10/17/79	EP (with English abstract & equivalent of US 4461770, US 4584310 & US 4608382)			NO
	AJ	93/14081	07/22/93	WO			NO
	AK	02/066458	08/29/02	WO (with English abstract & equivalent of US 2004/0116416)			NO
	AL	101 14 775	10/10/02	DE (with English abstract & equivalent of US 2004/0116995)			NO
	AM	02/076951	10/03/02	WO (with English abstract & equivalent of US 2004/0116995)			NO
	AN	102 22 103	11/27/03	DE (with English abstract & equivalent of WO 03/097633)			NO
	AO	96/03387	02/08/96	WO			NO
	AP	0 005 545	11/28/79	EP (with English abstract & equivalent of US 4440776, US 4355039 & US 4269847)			NO
	AQ	0 236 628	09/16/87	EP (equivalent of US 4686231)			NO
	AR	35 04 678	08/14/86	DE (with English abstract)			NO
	AS	0 372 445	06/13/90	EP			NO
	AT	99/03837	01/28/99	WO			NO
	AU	91/10662	07/25/91	WO			NO
	AV	91/13876	09/19/91	WO			NO
	AW	95/00501	01/05/95	WO			NO
	AX	1040467	02/10/89	JP (with English abstract)			NO
	AY	1 415 725	10/10/96	SU (with English abstract)			NO
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AZ	LAUFER, Stefan et al. "Ones, Thiones, and N-Oxides: An Exercise in Imidazole Chemistry", Angew. Chem. Int. Ed., vol. 41, no. 13, pages 2290-2293, XP002261426 2002					
	AAA	LIVERTON, Nigel et al. "Design and Synthesis of Potent, Selective, and Orally Bioavailable Tetrasubstituted Imidazole Inhibitors of p38 Mitogen-Activated Protein Kinase", J. Med. Chem., vol. 42, pages 2180-2190, XP002261427 1999					<input checked="" type="checkbox"/> Additional References sheet(s) attached
Examiner						Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.  264821US0PCT		SERIAL NO.  10/524,486	
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				FILING DATE  February 14, 2005		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AAB	BOEHM, Jeffrey C. et al. "1-Substituted 4-Aryl-5-pyridinylimidazoles: A New Class of Cytokine Suppressive Drugs with Low 5-Lipoxygenase and Cyclooxygenase Inhibitory Potency", J. Med. Chem., vol. 39, pages 3929-3927, XP002261428 1996					
	AAC	Acta Chim., vol. 61, no. 1, pages 69-77, XP002178027, English abstract only 1969					
	AAD	MUSTAFA, A. et al. "Reactions with 4,5-Disubstituted 2-Mercaptoimidazoles and their Derivatives", Journal f. prakt. Chemie, vol. 314, no. 5-6, pages 785-792, XP001088374 1972					
	AAE	GUPTA, G. D. et al. "Heterocyclic Systems Containing Bridgehead Nitrogen Atom: Part XLVI – Reaction of 4,5-Disubstituted 2-Mercaptoimidazoles with alpha-Halogenoketones & 1,2-Dibromoethane", Indian Journal of Chemistry, vol. 22B, pages 268-269 1983					
	AAF	WILDE, Richard G. et al. "Acyl CoA: Cholesterol Acyltransferase (ACAT) Inhibitors: Heterocyclic Bioisosteres for the Urea Group in DuP 128", Bioorganic & Medicinal Chemistry Letters, vol. 5, no. 2, pages 177-180 1995					
	AAG	SALAMA, M.A. et al. "Synthesis and Reactions of 4,5-Diaryl-2-Mercaptoimidazoles", Phosphorus and Sulfur, vol. 35, pages 83-88 1988					
	AAH	BEACH, Dorothy et al. "Inhibition of Lipid Peroxidation Promoted by Iron(III) and Ascorbate", Archives of Biochemistry and Biophysics, vol. 297, no. 2, pages 258-264 1992					
	AAI	MADUSKUIE, Thomas P. et al. "Design, Synthesis, and Structure-Activity Relationship Studies for a New Imidazole Series of J774 Macrophage Specific Acyl-CoA:Cholesterol Acyltransferase (ACAT) Inhibitors", J. Med. Chem., vol. 38, pages 1067-1083, XP001084249 1995					
	AAJ	MLOSTON, Grzegorz et al. "Trapping of a Thiocarbonyl Ylide with Imidazolethiones, Pyrimidinethione, and Thioamides", Helvetica Chimica Acta, vol. 82, pages 290-296, XP002209741 1999					
	AAK	MLOSTON, Grzegorz et al. "First Examples of Reactions of Azole N-Oxides with Thioketones: A Novel Type of Sulfur-Transfer Reaction", Helvetica Chimica Acta, vol. 81, pages 1585-1595 1998					
	AAL	DONAT, C. et al. "Archiv der Pharmazie", Arch. Pharm. Pharm. Med. Chem., vol. 333, Suppl. 1, pages 1-40 2000					
	AAM						
	AAN						
	AAO						
	AAP						
	AAQ						
Examiner						Date Considered	
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